Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the above-identified application.

Listing of the Claims:

1 (Cancelled). A buffer circuit that outputs a bias signal that varies linearly with an input signal, the buffer circuit comprising:

an input emitter-follower stage that receives the input signal and produces the bias signal at an output terminal;

- a gain stage coupled to the emitter-follower stage;
- a load coupled to the emitter-follower stage; and
- a feedback circuit coupled to the load and the gain stage wherein the feedback circuit includes a current source coupled to the gain stage.
- 2 (Cancelled). A bias circuit that outputs a bias signal that varies linearly with an input signal, the bias circuit comprising:

an input stage that receives the input signal and produces the bias signal at an output terminal that is coupled to a gain stage;

- a load coupled to the input stage at a first terminal; and
- a feedback circuit coupled between the first terminal and the gain stage wherein the feedback circuit includes a current source coupled to the gain stage.
- 3 (Cancelled). The bias circuit of claim 2, wherein the input stage comprises an emitter-follower input stage.
- 4 (Cancelled). The bias circuit of claim 2, wherein the gain stage comprises a common-emitter gain stage that has a base terminal.
- 5 (Cancelled). The bias circuit of claim 4, wherein the feedback circuit is coupled between the first terminal and the base terminal.

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